

SEQUENCE LISTING

<110> Ito, Masashi
Saito, Yasushi
Eisai Co., Ltd.

<120> Primary Cultured Adipocytes for Gene Therapy

<130> 082368-001500US

<140> US Not yet assigned
<141> Not yet assigned

<150> JP 2002-177648
<151> 2002-06-18

<150> JP 2002-237974
<151> 2002-08-19

<150> WO PCT/JP03/07721
<151> 2002-08-19

<160> 11

<170> PatentIn version 3.1

<210> 1
<211> 30
<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized oligonucleotide for amplifying
human insulin gene

<400> 1
cataagctta ccatggccct gtggatgcgc 30

<210> 2
<211> 30
<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized oligonucleotide for amplifying
human insulin gene

<400> 2
cattctagac tagttgcagt agttctccag 30

<210> 3
<211> 37
<212> DNA
<213> Artificial

<220>
<223> an artificially synthesized oligonucleotide for
mutagenesis

<400> 3
 cttctacaca cccaggacca agcgggagggc agaggac 37

<210> 4
 <211> 28
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized oligonucleotide for
 mutagenesis

<400> 4
 ccctggaggg atcccggcag aagcgtgg 28

<210> 5
 <211> 29
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized oligonucleotide for
 mutagenesis

<400> 5
 cacctgtgcg gatccgacct ggtggaagc 29

<210> 6
 <211> 83
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized oligonucleotide for
 constructing a gene encoding a secretory human GLP-1

<400> 6
 ttccaccatg ctgctgctgc tgctgctgct gggcctgagg ctacagctct ccctgggcca 60
 tgctgaaggg acctttacca gtg 83

<210> 7
 <211> 95
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized oligonucleotide for
 constructing a gene encoding a secretory human GLP-1

<400> 7
 aattatcctc ggcctttcac cagccaagca atgaactcct tggcagcttg gccttccaaa 60
 taagaactta catcactggg aaaggtccct tcagc 95

<210> 8
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized oligonucleotide for PCR

<400> 8
 ttccaccatg ctgctgctgc 20

<210> 9
 <211> 23
 <212> DNA
 <213> Artificial

<220>
 <223> an artificially synthesized oligonucleotide for PCR

<400> 9
 aattatcctc ggcctttcac cag 23

<210> 10
 <211> 144
 <212> DNA
 <213> Artificial

<220>
 <223> a gene encoding a secretory human GLP-1

<220>
 <221> CDS
 <222> (1)..(144)
 <223>

<400> 10
 atg ctg ctg ctg ctg ctg ctg ggc ctg agg cta cag ctc tcc ctg 48
 Met Leu Leu Leu Leu Leu Leu Gly Leu Arg Leu Gln Leu Ser Leu
 1 5 10 15

ggc cat gct gaa ggg acc ttt acc agt gat gta agt tct tat ttg gaa 96
 Gly His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu
 20 25 30

ggc caa gct gcc aag gag ttc att gct tgg ctg gtg aaa ggc cga gga 144
 Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
 35 40 45

<210> 11
 <211> 48
 <212> PRT
 <213> Artificial

<220>
 <223> a secretory human GLP-1

<400> 11

Met Leu Leu Leu Leu Leu Leu Leu Gly Leu Arg Leu Gln Leu Ser Leu
 1 5 10 15
 Gly His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu
 20 25 30
 Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly
 35 40 45